Hardware details

1.Motor:

Dc geared motor (TG-30P-BE-120-D050)

24V

Rpm 29.4

33W

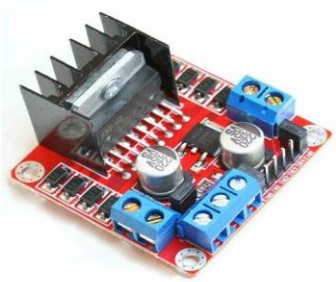Alternative:

12v 60 rpm high torque dc gear motor gw370

Link:
https://www.daraz.com.bd/products/reversible-high-torque-turbo-worm-geared-motor-dc-motor-gw370-12v-30rpm-i134650765.html

Motor driver:

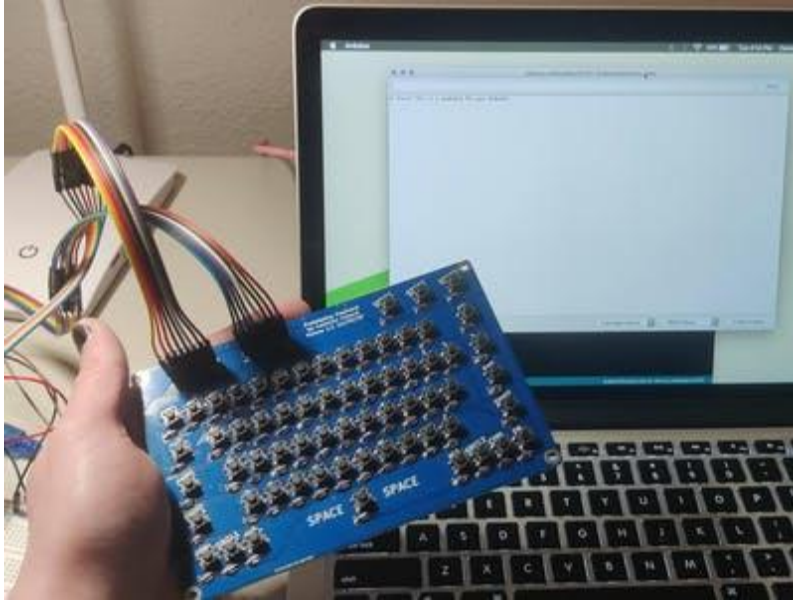L298N H-Bridge Dual Motor Driver, Stepper Motor Driver

Link:

https://store.roboticsbd.com/motor-driver/376-l298n-h-bridge-dual-motor-driver-stepper-motor-driver-robotics-bangladesh.html
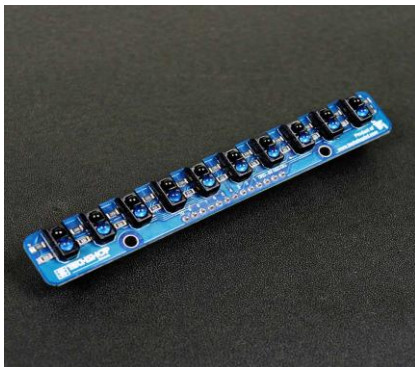
Battery

12V -7.5 Ah

Custom keybord :

We will try to make with our own design and circuit schematic and printed board

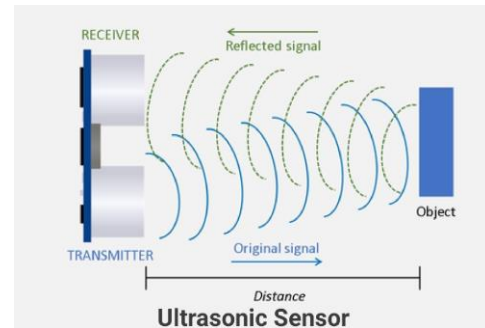For patient entry

IR sensor array

For line following

Ultra sound sensor

HC-SR04 Ultrasonic Sensor Distance Measuring Module 3.3V / 5V Compatible for Arduino
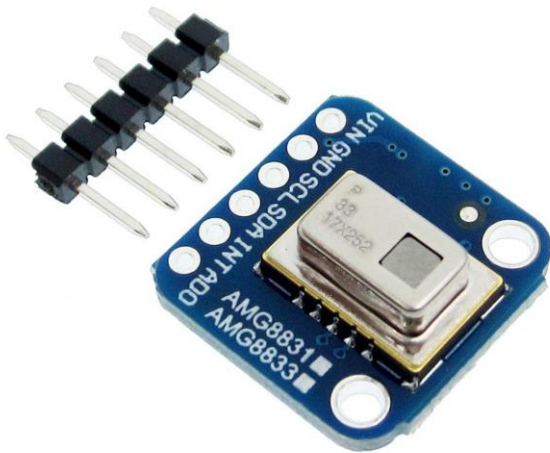

For object detection

Future adding's will try to go with jetson nano for Image prosses :

Link:

https://www.amazon.com/NVIDIA-Jetson-Nano-Developer-945-13450-0000-100/dp/B084DSDDLT

Thermal camera:

AMG8833 IR 8x8 Thermal Imager Array Temperature Sensor Module for Arduino Raspberry Pi

For tracking patients with fever

For robot body we will use stainless steal.